

#### THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Edward T. H. Yeh Limin Gong

Serial No.: 10/624,945

Filed: July 22, 2003

For: COMPOSITION AND METHODS RELATING TO SENP1-A SENTRIN-

SPECIFIC PROTEASE

Group Art Unit: 1653

Examiner: Unknown

Atty. Dkt. No.: UTSH:245USC1

01/29/2004 LWDNDIM1 00000010 10624945

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130.00 OP

#### CERTIFICATE OF MAILING 37 C.F.R 1.8

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Gina N. Shishima

# I. PETITION UNDER 37 C.F.R. 1.53(e)(2) TO ACCORD FILING DATE AND II. RESPONSE TO NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION FILED UNDER 37 C.F.R. 1.53(b)

#### **MS MISSING PARTS**

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

In response to the Notice to File Missing Parts of Nonprovisional Application Filed Under 37 C.F.R. § 1.53(b), dated December 30, 2003, Applicants hereby petition under 37 C.F.R. 1.53(e)(2) for the office to accord a filing date of July 22, 2003, pursuant to 37 C.F.R. 1.53(b), and provide herewith the items requested in the Notice.

#### I. PETITION

In support hereof Applicant provides the following information:

Applicant filed the instant application on July 22, 2003. A Notice to File Missing Parts of Nonprovisional Application Filed Under 37 C.F.R. § 1.53(b) was mailed December 30, 2003, indicating that a filing date was not accorded to the referenced nonprovisional application for a failure to supply Figure 5C.

Applicant deposited in the U.S. Post Office by Express Mail, the instant application including the Specification, Claims, Abstract, Sequence Listing and Drawings, on July 22, 2003, which included Figure 5C. Attached hereto as Exhibit A is a copy of the Utility Patent Application Transmittal indicating the items submitted to the Patent and Trademark Office on July 22, 2003. Further attached hereto as Exhibit B is a copy of the 10 sheets of drawings, Figures 1-7, as filed on September 13, 2002. Further attached hereto as Exhibit C is a copy of the postcard stamped by the Patent and Trademark Office with the serial number and filing date indicating the items submitted to the Patent and Trademark Office, including 10 sheets of drawings. Further attached hereto as Exhibit D is a copy of the Express Mail Receipt indicating the July 22, 2003 filing date.

Pursuant to 37 C.F.R. § 1.17(h), a check in the amount of \$130.00 is enclosed in payment of the appropriate fee for this petition.

Applicants have therefore shown compliance with the requirements of 37 C.F.R. §1.53(b) in the instant application and respectfully request the office to accord a filing date of July 22, 2003, and to refund the amount of the petition fee of \$130.00 to Fulbright & Jaworski Deposit Account No. 50-1212/UTSH:245USC1.

II. <u>RESPONSE TO NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL</u>
APPLICATION FILED UNDER 37 C.F.R. 1.53(b)

C.F.R. § 1.53(b), dated December 30, 2003, there are enclosed herewith:

(a) Copy of the Request for Transfer of Sequence Listing that was previously submitted

In response to the Notice to File Missing Parts of Nonprovisional Application Under 37

with the application at the time of filing, July 22, 2003.

(b) Our check in the amount of \$459.00 to cover the basic filing fee

(\$385.00 - utility small entity); surcharge for late filing (\$65.00); additional claims

fee (\$9.00); and

(c) A copy of Notice to File Missing Parts of Nonprovisional Application Filed Under

37 C.F.R. 1.53(b)-Filing Date Granted.

If the check is inadvertently omitted, or should any additional fees under 37 C.F.R.

§§ 1.16 to 1.21 be required for any reason relating to the enclosed materials, or should an

overpayment be included herein, the Commissioner is authorized to deduct or credit said fees

from or to Fulbright & Jaworski Deposit Account No.: 50-1212/UTSH:245USC1.

Please date stamp and return the accompanying postcard to evidence receipt of these

documents.

Respectfully submitted,

Gina N. Shishima

Reg. No. 45,104

Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P. 600 Congress Avenue, Suite 2400 Austin, Texas 78701 (512) 474-5201

Date:

January 21, 2004

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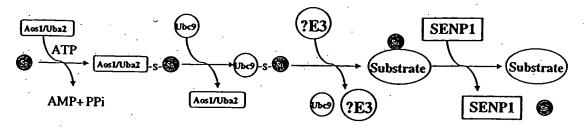
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# UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.		UTSH:245USC1				
First Inventor		Yeh, Edward				
Title	Compositions and Methods Relating to SENP1-A Sentrin-Specific Protease					
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(Only for new nonprovision	xpres	s Mail Label No.   <sup>t</sup>	EV 32328	3229 (	US			
• • • • • • • • • • • • • • • • • • •				ADDRESS TO: Assistant Commissioner for Patents Box Patent Application				
See MPEP chapter 600 concerning utility patent application contents.  1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)  2. Applicant claims small entity status. See 37 CFR 1.27.  3. Specification [Total Pages 101 ]  - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure  4. Drawing(s) (35 U.S.C. 113) [Total Sheets 10 ]  5. Oath or Declaration [Total Pages 2 ]  a. Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).			7	Washington, DC 20231  7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS  9. Assignment Papers (cover sheet & document(s))  10. (when there is an assignee) Attorney  11. English Translation Document (if applicable)  12. Information Disclosure Statement (IDS)/PTO-1449 Citations  13. Preliminary Amendment  14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. (Certified Copy of Priority Document(s) (if foreign priority is claimed)				
6. Application Data Sheet. See 37 CFR 1.76				or its equivalent.  17. Other: Request to Fransfer Sequence Listing				
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:   ✓ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 09 , 628,966   Prior application information: Examiner. W. Moore Group Art Unit: 1652  For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
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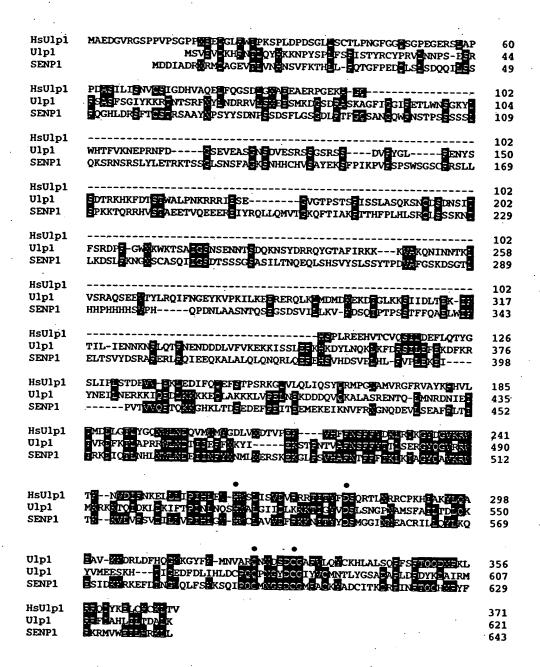
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Activation Conjugation Sentrinization De-sentrinization

FIG. 1. Sentrinization and de-sentrinization pathway.

1 61	acctagcgactcttccggtgctgtgaaggcggttccggttcgggcggttcccgggtttt gcgttccgcgcccggccgg	
121	atctttgctaaagtcagtgatgtgaaaagacttgaatggatgatattgctgataggatg  M D D I A D R M	8
181	aggatggatgctggagaagtgactttagtgaaccacaactccgtattcaaaacccacctc R M D A G E V T L V N H N S V F K T H L	28
241	ctgccacaacaggttttccagaggaccagctttcgctttctgaccagcagattttatct L P Q T G F P E D Q L S L S D Q Q I L S	48
301	tccaggcaaggacatttggaccgatcttttacatgttccacaagaagtgcagcttataat S R Q G H L D R S F T C S T R S A A Y N	68
361	ccaagctattactcagataatccttcctcagacagttttcttggctcaggcgatttaaga PSYYSDNPSSDSFLGSGDLR	88
421	acctttggccagagtgcaaatggccaatggagaaattctaccccatcgtcaagctcatct T F G Q S A N G Q W R N S T P S S S S S	108
481	ttacaaaaatcaagaaacagccgaagtctttacctcgaaacccgaaagacctcaagtgga L Q K S R N S R S L Y L E T R K T S S G	128
541 601 :	ttatcaaacagttttgcgggaaagtcaaaccatcactgccatgtatctgcatatgaaaaa L S N S F A G K S N H H C H V S A Y E K	148
661	tcttttcctattaaacctgttccaagtccatcttggagtggttcatgtcgtcgaagtctt S F P I K P V P S P S W S G S C R R S L	168
721	ttgagccccaagaaaactcagaggcgacatgttagtacagcagaagagacagttcaagaa L S P K K T Q R R H V S T A E E T V Q E gaagaaagagagatttacagacagctgctacagatggtcacagggaaacagtttactata	188
781	E E R E I Y R Q L L Q M V T G K Q F T I gccaaacccaccaccattttcctttacacctgtctcgatgtcttagttccagtaaaaat	208
841	A K P T T H F P L H L S R C L S S S K N actitigaaagactcactgtttaaaaatggaaactcttgtgcatctcagatcattggctct	228
901	T L K D S L F K N G N S C A S Q I I G S gatacttcatcatcatctggatctgccagcattttaactaac	248
961	D T S S S G S A S I L T N Q E Q L S H S gtatattccctatcttcttataccccagatgttgcatttggatccaaagattctggtact	268
1021	V Y S L S S Y T P D V A F G S K D S G T cttcatcatccccatcatcaccactctgttccacatcagccagataacttagcagcttca	288
1081	L H H P H H H H S V P H Q P D N L A A S aatacacaatctgaaggatcagactctgtgattttactgaaagtgaaagattcccagact	308
1141	N T Q S E G S D S V I L L K V K D S Q T ccaactcccagttctactttcttccaggcagagctgtggatcaaagaattaactagtgtt	328
1201	PTPSSTFFQAELWIKELTSV tatgattctcgagcacgagaaagattgcgccagattgaagaacagaaggcattggcctta YDSRARERLROIEEOKAIAI	348
1261	cagcttcaaaaccagagattgcaggagcgggaacattcagtacatgattcagtagaacta	368
1321	Catcttcgtgtacctcttgaaaaggagattcctgttactgttgtccaagaaacacaaaaa  H L R V P L E K E I P V T V V O E T O K	388 408
1381	aaaggtcataaattaactgatagtgaagatgaatttcctgaaattacagaggaaatggag K G H K L T D S E D E F P E I T E E M E	428
1441	aaagaaataaagaatgtatttcgtaatgggaatcaggatgaagttctcagtgaagcattt K E I K N V F R N G N Q D E V L S E A F	448
1501	cgcctgaccattacacgcaaagatattcaaactctaaaccatctgaattggctcaatgat R L T I T R K D I Q T L N H L N W L N D	468
1561	gagatcatcaatttctacatgaatatgctgatggagcgaagtaaagagaagggcttgcca E I I N F Y M N M L M E R S K E K G L P	488
1621	agtgtgcatgcatttaatacctttttcttcactaaattaaaaacggctggttatcaggca S V H A F N T F F F T K L K T A G Y Q A	508
1681	gtgaaacgttggacaaagaaagtagatgtattttctgttgacattcttttggtgcccatt V K R W T K K V D V F S V D I L L V P I	528
1741	Cacctgggagtacactggtgtctagctgttgtggactttagaaagaa	548
1861	tacgactccatgggtgggataaacaatgaagcctgcagaatactcttgcaatacctaaag Y D S M G G I N N E A C R I L L Q Y L K	568
1921	Caagaaagcattgacaagaaaaggaaaggtttgacaccaatggctggc	588
1981	K K S Q I P Q Q M N G S D C G M F A C K tatgctgactgtattaccaaagcacaatcaacttcacacagcaacacatgccatac	608
2041	Y A D C I T K D R P I N F T Q Q H M P Y ttccggaagcggatggtctgggagatcctccaccgaaaactcttgtgaagactgtctcac	628
2101	F R K R M V W E I L H R K L L *  ttagcagaccttgaccatgtgggggaccagctctttgttgtctacagccagagaccttgg	643
2161	aaacagctgctcccagccctctgctgttgtaacacccttgatcctggaccaggccctggc	
2221	Gagatgcattcacaagcacatotgcotttactttactttac	
2281	gagatgcattcacaagcacatctgcctttccttttgtatctcagatactatttttgcaaa	
2341	gaaactttggtgctgtgaaaggggtgagggacatccctaagctgaagagagactgctt ttcacttcttcagttctgccatcttgttttcaaagggctccagcctcactca	



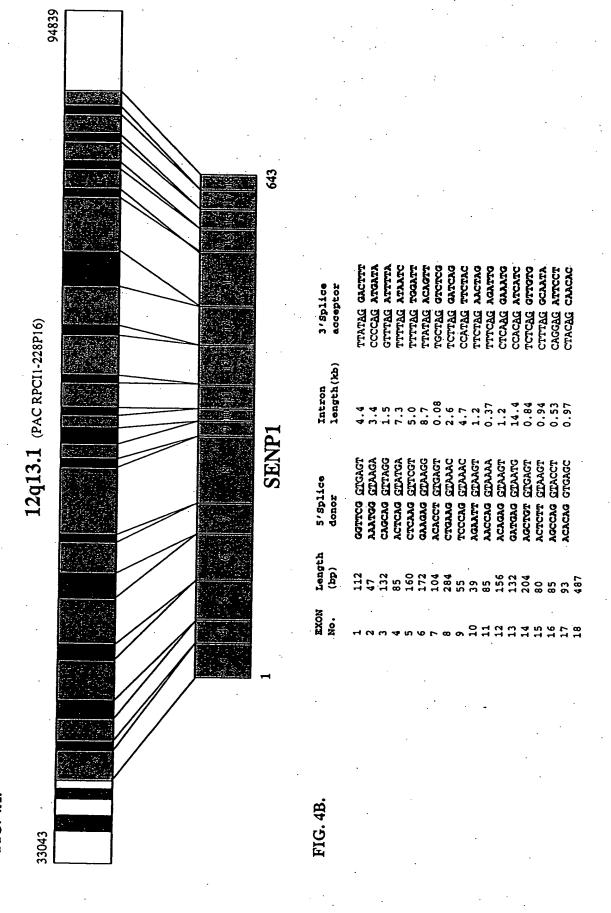


Fig. 5A

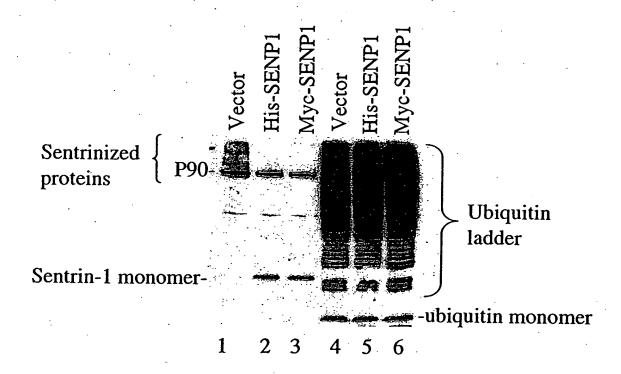
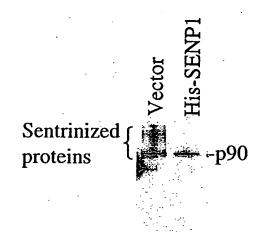


Fig. 5B



Sentrin-2 monomer-

Fig. 5C

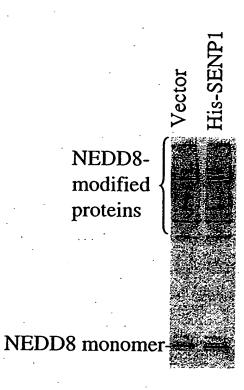
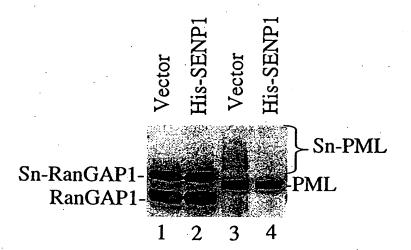


Fig. 6



H_SENP1	PIHLGVHW
H_SENP2	PIHRKVHW
H_SENP3	PIHLEVHW
H_SENP4	PIHLEVHW
H_SENP5	PIHLEVHW
H_SENP6	PLNEAAHWFLAVVCFPGLEKPKYEPNPHYHENAVIQKCSTVEDSCISSSASEMESCSQNSSAKPVIKKML
H_SENP7	PVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQSQN
H_SENP1	
H_SENP2	
H_SENP3	
H_SENP4	
H_SENP5	
H_SENP6	NKKHCIAVIDSNPGQEESDPRYKRNICSVKYSVKKINHTASENEEFNKGESTSQKVADRTKSENGLQNES
H_SENP7	
<del>-</del>	
H_SENP1	CLAVVDF
H_SENP2	SLWIDI.
H_SENP3	SLISVDV
H_SENP4	SIISVDV
H_SENP5	SLITVTL
H_SENP6	LSSTHHTDGLSKIRLNYSDESPEAGKMLEDELVDFSEDQDNQDDSSDDGFLADDNCSSEIGQWHLKPTIC
H_SENP7	DNKTIDNDLRTTSTLSLSAEDSQSTE-SNMSVPKKMC
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H_SENP1	RKKNITYYDSMGGINNEAC-RILLQYLKQESIDKKRKEFDTNGWQLFSKKSQ-IPQQMNGSDCGMFACKY
H_SENP2	RKKCLKYLDSMGQKGHRIC-EILLQYLQDESKTKRNSDLNLLEWTHHSMKPHEIPQQLMGSDCGMFTCKY
H_SENP3	RRRTITYFDSQRTLNRR-CPKHIAKYLQAEAVKKDRLDF-HOGWKGYFKMNVARONNDSDCGAFVLOY
H_SENP4	RRRTITYYDSQRTVNRR-CPKHIAKYLQAEAVKKVRLDF-HOGWKGYFOMNVARONNDSGCGAFVLOY
H_SENP5	SNRIISFYDSQGIHFKF-CVENIRKYLLTEAREKNRPEF-LQGWQTAVTKCIPQQKNDSDCGVFVLQY
H_SENP6	KQPCILLMDSLRGPSRSNVVKILREYLEVEWEVKKGSKRSFSKDVMKGSNPK-VPQQNNFSDCGVYVLQY
H_SENP7	KRPCILILDSLKAASVQNTVQNLREYLEVEWEVKLKTHRQFSKTNMVDLCPK-VPKQDNSSDCGVYLLQY
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Applicant: Yeh et al. Attorney: GNS				GNS	
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